S22/S22PC Visible Spectrophotometer

▲ Feature:

* Whole aluminum metal alloy die-castings.
* Pre-aligned halogen-tungsten lamp,offer ease of use and simple maintenance.
* Built in SCM technology,auto 0%,auto 100%,error-free T/A transformation.
* Transmittance test, absorbance test, concentration factor setting and concentration direct readout functions.
* Analysis with data processing software.
* Spacious sample compartment, 4 position cuvette rack, adaptable for 1-5cm optical path rectangular cuvettes.

Biocotek

▲ Specifications:

Wavelength Range:	340-1000nm
Wavelength Accuracy:	± 2nm
Wavelength Reproducibility:	=1nm
Spectral Bandwidth:	6nm
Photometric Accuracy:	± 0.5%(t)
Photometric Reproducibility:	± 0.3%(t)
Stray Light:	<0.5%(t)
	<0.2%(t) (S22PC)
Scale:	TRANS: 0-199.9%
	ABS: -0.3-2.999
	FACT: 1-9999
	CONC: 0-9999
Display Mode	4digit(LED)
Lamp	Halogen-Tungsten Lamp
Optical System	C-T configuration diffraction grating monochromator
Interface	RS232 Serial Port, Parallel port
Dimension	370*320*210
Weight	7KG

▲ Standard Configuration:

S22PC or S22 1 PC
Power cable 1 PC
Operation Manual 1 pc
Fuses (2 A) 2 pcs
1 cm glass cuvettes 2 Pairs
1cm 4 position cuvette rack 1 PC
Packing list 1 PC

▲ Optional Accessories and Spare Parts:

1. Fuse(2A/3A)
2. pre-aligned UV-VIS combine lamp
3. Glass cuvette 1cm, 2cm, 3cm, 5cm
4. 5 cm cuvette rack (adaptable for 1-5 cm Cuvette)
5. Qualitative-quantitative data processing software packag
6. Comunication Cable
7. Mini Printer
8 Printer Cable
9. Praseodymium-Neodymium Optical Filter

Biocotek

S23A VISIBLE SPECTROPHOTOMETER (Tube & Cuvette)

S23A is special for Environmental Protection Department and Education Department, Can use testing tubes or cuvette to make measure directly.

▲ Features:

* Using universal φ12+0.4*100 mm testing tubes or cuvette to make measure directly.
* Whole aluminum metal alloy die-castings.
* Pre-aligned halogen-tungsten lamp,offer ease of use and simple maintenance.
* Built in SCM technology,auto 0%,auto 100%,error-free T/A transformation.
* Transmittance test, absorbance test, concentration factor setting and concentration

direct readout functions.
* Analysis with data processing software.

How to select the test tube
Generally the round test tube is not for optic purpose unless it is pre-checked strictly.
1. Check size. (The size should be φ12+0.4*100 mm)
2. Check the surface of tube. (It should be no bubbles, no scabs, no thread like things.)
3. Warming instrument and set the wavelength at 360 nm.
4. Pour some pure water into tube and insert it to the test tube well in sample partment.Then put some mark on the tube opposite the white mark at the instrument.
5. Put the other test tube into instrument one by one and get the readout for everyone and put
mark at everyone. We can divide them in many groups. In each group the differential of readout for every tub is less then ±0.02A.
6. We can use tubes in same group for blank, sample, and standard solution needn't check the tube every time.

▲ Specifications:

Wavelength Range	340~950nm
Wavelength Accuracy	±2.5nm
Wavelength Repeatability	<1nm
Photometric Range	0.0-199.9%T
	-0.3-2.999A
	1~9999F
	0~9999C
Photometric Accuracy	±2%(τ)(Tube) ±0.5%(τ)(Cuvette)
Photometric Reproducibility	0.3%(τ)
Stray Light	≤0.5%(τ)
Spectral Bandwidth	12nm
Display Mode	4digit(LED)
Lamp	Halogen-Tungsten Lamp
Optical System	C-T configuration diffraction grating monochromator
Interface	RS232 Serial Port
Dimension	370*320*210
Weight	6.5KG

Biocotek

▲ Standard Configuration:

S23A Spectrophotometer	1 Set
1 CM Glass Cuvette	1 Pairs
Cuvette Rack	1 PC
Power Cable	1 PC
User Manual	1 PC
Fuse (2A)	1 PC
Packing List	1 PC

▲ Optional Accessories:

Fuse (2A/3A)
Pre-aligned halogen-tungsten lamp

Glass Cuvette 1 cm
Cuvette Rack
Praseodyminum-Neodymium Optical Filter
Mini Printer
Printer Cable
Spectrophotometer data processing software package
Comunication Cabel

SP1105 Visible Spectrophotometer

▲ Recommended application areas:

SP-1105 is an ideal upgrade product for colleges' basic laboratories, and other routine laboratories, such as food and healthy, biological engineering, modern agriculture, environment monitoring, etc. It's also used as an on-field detecting device in corporations that let wastes, such as iron and steel industry, food, paper making, plating, printing and dyeing, sugar refining, electricity generating, and so on.

Biocolor

▲ Main features:

* Novel designed auto-collimated light path with grating monochromator, guarantees excellent optical performance.
* The SCM technology enables the instrument to be intelligent and digital.
* Function of 0%T and 100%T self-adjusting, which enables the operation simple and human.
* Large display with LCD, which enables the testing parameters be displayed as transmittance, absorbance, and concentration.
* High precision of data processing that reaches one percent of a hundred thousand, which makes the transform between transmittance and absorbance with little error be possible.
* Filters auto-switching at the whole wavelength range, enables the instrument without additional manual operation.
* Switching power supply, with self-adaptive inputting voltage of 85~264VAC, (that is abbreviated to “SMPS”), guarantees that the instrument can work normally with different power supply at any environment.

▲ Basic testing mode

Basic measurement	Photometric measurement,(A/T)
	Concentration measurement (C)
Concentration measurement	Slope method (C=K*A)
	Standard curve method
Software functions	Win-spec workstation, SP-1.33EN

Photometric analysis	T, A, and C measurement;
Quantitative analysis	standard curve measurement;
Kinetic analysis	measurement with time-scanning.

▲ Main Specification:

Display	3.5bits digital LCD Displayer
Light Source	6V10W Halogen Lamp(2000 hours)
Sample Compartment(Max)	50mm Optical Path
Standard Cell Holder	10mm
Standard Cell Configuration	10mm Glass cell(4pcs)
Power Requirement	110/220VACï¼Œ50/60Hz,±10%

▲ Basic instrument functions:

100%T or 0%T setup	Automatic.
Signal output	RS-232C, Analog
Communication function	Intercommunication can be realized after connecting to PC (option)

▲ Photometric Performance:

Photometric Analysis	T, A, and C measurement;
Photometric Range	0-125.0%Tï¼Œ0-1.999A, 0-1999C, 0-1999F
Photometric Accuracy	±1.0%T
Photometric repeatbility	0.5%T
Stability	±0.004A/hr (at 500nm, after warming up for 1 hour)

Biocotek

▲ Optical Performance:

Optic System	Littrow type optic system with 1200 grooves/mm diffraction grating monochromator
Light path	50mm
Spectrum bandwidth	6nm
Wavelength range	340-1000nm
Wavelength accuracy	±2nm
Wavelength repeatability	1nm
Stray light	≤0.5%T(at 360nm)

▲ Standard configuration:

10mm manual four-cell holder, 1pcs
10*10*45 mm standard glass cuvettes, 4pcs
RS-232C connection cord, 1pcs
Power cable, 1pcs
User manual, 1pcs
Operation procedure, 1pcs
Win-spec software SP-1.33EN, 1pcs

▲ Function configuration:

Standard type: SP-1105

The operation can be carried out by the instrument. It also can be controlled by PC, which is easy to master, and plenty of testing data can be stored, data processing such as calculation, statistic analysis and tab also can be realized.

SP2000 Visible Spectrophotometer

▲ Recommended application:

SP-2000 is a visible spectrophotometer special designed for micro amount sample. The sample compartment can hold cuvettes with100mm light path, and diversified cuvettes with light path at a range of 5-50mm also can be hold. SP-2000 is used as a teaching instrument in basis laboratories, which is used in colleges for specialty of environmental protection. It's also used as an instrument for products quality control at sugar-refinery, food and drink industry.
It's better used as a monitoring device that controls the let of waste water in industries, such as electricity generating, water supply, paper making, plating, printing and dyeing, and so on.

Biocotek

▲ Main features:

* The large sample compartment with long path detecting system, enable diversified cuvettes be hold at the range of 5-100mm.
* Novel designed auto-collimated light path with grating monochromatic, guarantees excellent optical performance.
* The SCM technology enables the instrument to be intelligent and digital.
* Function of 0%T and 100%T self-adjusting, which enables the operation simple and human.
* Large display with LCD, which enables the testing parameters, be displayed as transmittance, absorbance, and concentration.
* High precision of data processing that reaches one percent of a hundred thousand, which makes the transform between transmittance and absorbance with little error be possible.
* Filters auto-switching at the whole wavelength range, enables the instrument without additional manual operation.
* Switching power supply, with self-adaptive inputting voltage of 85~264VAC, (that is abbreviated to “SMPS”), guarantees that the instrument can work normally with different power supply at any environment.

▲ Main Specification:

Display	3.5bits digital LCD Displayer
Light Source	6V10W Halogen Lamp(2000 hours)

Sample Compartment(Max)	50mm Optical Path
Standard Cell Holder	50mm
Standard Cell Configuration	10mm Glass cell(4pcs)
Power Requirement	110/220VACï¼Œ50/60Hz,±10%

▲ Basic testing mode:

Basic measurement	Photometric measurement,(A/T)
	Concentration measurement (C)
Concentration measurement	Slope method (C=K*A)
	Standard curve method
Software functions	Win-spec workstation, SP-1.33EN
Photometric analysis	T, A, and C measurement
Quantitative analysis	Standard curve measurement;
Kinetic analysis	Measurement with time-scanning.

▲ Basic instrument functions:

100%T or 0%T setup	Automatic.
Signal output	RS-232C, Analog
Communication function	Intercommunication can be realized after connecting to PC

▲ Photometric Performance:

Photometric Analysis	T, A, and C measurement;
Photometric Range	0-125.0%Tï¼Œ0-1.999A, 0-1999Cï¼Œ 0-1999F
Photometric Accuracy	±0.5%T
Photometric repeatbility	0.3%T
Stability	±0.003A/hr (at 500nm, after warming up for 1 hour)

Biocotek

▲ Optical Performance:

Optic System	Littrow type optic system with 1200 grooves/mm diffraction grating monochromator
Light path	100mm
Spectrum bandwidth	5nm
Wavelength range	325-1000nm
Wavelength accuracy	±2nm
Wavelength repeatability	1nm
Stray light	≤0.5%Tï¼ˆat 360nm ï¼‰

▲ Standard configuration:

50mm manual four-cell holder, 1pcs
10*10*45 mm standard glass cuvettes, 4pcs
RS-232C connection cord, 1pcs
Power cable, 1pcs
User manual, 1pcs
Operation procedure, 1pcs
Win-spec software SP-1.33EN, 1pcs

▲ Function configuration:

Standard type: SP-2000

The operation can be carried out by the instrument. It also can be controlled by PC, which is easy to master, and plenty of testing data can be stored, data processing such as calculation, statistic analysis and tab also can be realized.

Note: There may not be special notifications when the technical specification,profile and configuration changed. Please, the products will be in agreement with the real models.

SP2100/SP2100PC Visible Spectrophotometer

SP-2100 is an intelligent visible spectrophotometer that has various functions as well as advanced instruments. The instrument contains features such as high automatization, various functions, strong plasticity, and so on. The Win-spec photometric software with diversified application functions is accompanied with the instrument as a present, which combining with special accessories for different purpose, the stick and the carrot, enables you to obtain a solution for sample analysis that fits to your individuation requirement. User can find a solution that well-designed for you from our company whichever industry you are engaged in.

▲ Basic testing mode:

Basic measurement	Photometric measurement,(A/T)
	Concentration measurement (C)
Concentration measurement	Slope method (C=K*A)
	Standard curve method
Software functions	Win-spec workstation, SP-2.33EN
Photometric analysis	T, A, and C measurement
Quantitative analysis	Standard curve measurement;
Kinetic analysis	Measurement with time-scanning.
Spectrum scan analysis	Spectrum scan function

▲ Main Specification:

Display	2*20 characters LCD with blacklight function
Light Source	6V10W Halogen Lamp(2000 hours)
Sample Compartment(Max)	100mm Optical Path
Standard Cell Holder	10mm
Standard Cell Configuration	10mm Glass cell(4pcs)
Power Requirement	110/220VACï¼Œ50/60Hz,±10%

▲ Basic instrument functions:

100%T or 0%T setup	Automatic.
System self-testing	Wavelength self-testing, light soures self-testing,filter switching,energy calibrating.
Signal output	RS-232C, Analog
Communication function	Intercommunication can be realized after connecting to PC

▲ Performance&Specification:

Item	SP-2100	SP-2100PC
Optic system	Littrow type optic system with 1200 grooves/mm diffraction grating monochromator.	
Wavelength range(nm)	325-1000	
Spectrum bandwidth(nm)	4	
Wavelength accuracy(nm)	±1	
Wavelength repeatability(nm)	0.5	0.3
Photometric range	0-125%T,-0.097-3A	
Photometric accuracy	±0.5%T	
Photometric repeatability	0.3%T	
Stray light	≤0.3%T (at 220nm)	
Stability	±0.002A/hr(at 500nm,after warming up for 1hour)	
Noise	±0.001	
Baseline flatness	±0.004A	
Display	128*64 digital LCD Displayer	

Biocosk

▲ Standard configuration:

50mm manual four-cell holder, 1pcs
10*10*45 mm standard glass cuvettes, 4pcs
RS-232C connection cord, 1pcs
Power cable, 1pcs
User manual, 1pcs
Operation procedure, 1pcs
Win-spec software SP-1.33EN, 1pcs

▲ Function configuration:

Standard type: SP-2000
The operation can be carried out by the instrument. It also can be controlled by PC, which is easy to master, and plenty of testing data can be stored, data processing such as calculation, statistic analysis and tab also can be realized.

Note: There may not be special notifications when the technical specification,profile and configuration changed. Please, the products will be in agreement with the real models.

752S UV-VIS SPECTROPHOTOMETER

Display Model: 4 digital LED
Lamp: Patent assembled Hamamatsu L2D2 long life Deuterium Lamp and RoYal long life
Halogen-Tungsten Lamp
Optical system: C-T configuration diffraction grating monochromator
Interface:RS232 serial port
Dimensions: 370/320/240 mm
Weight: 10Kg

▲ Features:

Biocotek

* Whole aluminum metal alloy die-castings.
* Patent assembled pre-aligned deuterium and halogen-tungsten lamp,long life and simple maintenance.
* Advanced optical system ensures low stray light.
* Built in SCM technology,auto 0%,auto 100%,error-free T/A transformation.
* Transmittance test, absorbance test, concentration factor setting or concentration direct readout functions.
* Analysis with data processing software.
* Spacious sample compartment, 4 position cuvette rack, adaptable for 1-5cm optical path rectangular cuvettes.

▲ Specifications:

Wavelength Range:	200-960 nm
Wavelength Accuracy:	2nm
Wavelength Reproducibility:	<1nm
Spectral band width:	2nm
Photometric Accuracy:	0.5%(t)
Photometric Reproducibility:	0.3%(t)
Stray Light:	<0.5%(t) (360nm, NaNO2) (220nm, NaI)

Photometric range:	TRANS: 0-199.9%
	ABS: -0.3-2.999
	FACT: 1-9999
	CONC: 0-9999

▲ Standard Configuration:

1) 752S spectrophotometer 1 set
2) Power cable 1 pc
3) User Manual 1 pc
4) Certificate of quality checking 1 pc
5) Fuses (2A) 2 pcs
6) 1cm glass cuvette 2 pairs
7) 1cm quartz cuvette 1 pair
8) 1cm 4 position cuvette rack 1 pc
9) Packing list 1 pc

▲ Optional Accessories:

1) Fuse (2A/3A)
2) Assembled pre-aligned deuterium and halogen-tungsten lamp
3) Glass cuvette 1 cm, 2 cm, 3 cm, 5cm
4) Quartz cuvette 1cm, 2cm, 3cm, 5cm
5) 5 cm cuvette rack £¨adaptable for 1-5cm cuvette
6) Praseodymium-Neodymium optical filter
7) Holmium oxide optical filter
8) Mini printer
9) Printer cable
10) Data processing software package
11) Comunication cable

Biocotek

755S UV-VIS Spectrophotometer

Display Mode: Backlight digital LCD
Lamp: Patent assembled Hamamatsu L2D2 long life Deuterium Lamp and RoYal long life Halogen-Tungsten Lamp
Optical system: C-T configuration diffraction grating monochromator
Interface:RS232 Serial port
Dimensions: 370/360/200 mm
Weight: 10Kg

▲ Features:

* Whole aluminum metal alloy die-castings.
* 128*64 dots back illuminated wide screen LCD display.
* Patent assembled pre-aligned deuterium and halogen-tungsten lamp,long life and simple maintenance. spectral engery correct system.
* Advanced optical system ensures low stray light.
* Built in SCM technology, auto 0%,auto 100%,error-free T/A transformation.
* Decimal system keyboard,transmittance test, absorbance test, concentration factor setting or concentration direct readout functions.
* As much as 24 items of working curve equations can be preserved for long time.
* First order curve fitting can be performed.
* Data printout by mini printer.
* Spacious sample compartment, 4 position cuvette rack, suitable for 1-5 cm optical path rectangular cuvettes.

Biocotek

▲ Specifications:

Wavelength Range:	200-960 nm
Wavelength Accuracy:	1nm
Wavelength Reproducibility:	<0.5nm
Spectral band width:	2nm
Photometric Accuracy:	0.5%(t)
Photometric Reproducibility:	0.3%(t)
Stray Light:	<0.2%(t) (360nm, NaNO2) (220nm, NaI)
Photometric range:	TRANS: 0-199.9%
	ABS: -0.3-2.999
	FACT: 1-9999
	CONC: 0-9999

▲ Standard Configuration:

1) 755S spectrophotometer 1 set
2) Power cable 1 pc
3) User Manual 1 pc

4) Certificate of quality checking 1 pc
5) Fuses (2A) 2 pcs
6) 1cm glass cuvette 2 pairs
7) 1cm quartz cuvette 1 pair
8) 1cm 4 position cuvette rack 1 pc
9) Packing list 1 pc
10)Mini printer 1 set

▲ Optional Accessories:

1) Fuse (2A/3A)
2) Assembled pre-aligned deuterium and halogen-tungsten lamp
3) Glass cuvette 1 cm, 2 cm, 3 cm£¬5cm
4) Quartz cuvette 1cm, 2cm, 3cm, 5cm
5) 5 cm cuvette rack (adaptable for 1-5cm cuvette)
6) Praseodymium-Neodymium optical filter
7) Holmium oxide optical filter
8) Mini printer
9) Printer cable
10) Data processing software package
11) Comunication cable

Biocotek

Glod S53 UV-Visible Spectrophotometer

MODEL: Gold S53
ProductStandard: EnterpriseStandard Q/SEEK3
DISPLAY STYLE: 4 LED
DEMENSION: 450*435*305
WEIGHT Net 10kg Gross 12.5kg

▲ Description:

1.Japanese Hamamatsu L2D2 steady, high-luminosity, more than 3000hours lifetime Deuterium lamp; Japanese more than 10000hours lifetime Halogen-Tungsten Lamp; Hamamatsu 1226 UV-receiver; Patent compages technology of lamp parts.
2.Automatically wide range of wavelength scanning & dynamics scanning.
3.Non-spherical optical path of light source, CT grating monochromator.
4.Large sample compartment, 4-positions sample cuvette rack, optional 5cm optical length rectangular cuvettes.
5.With a special software for spectrogram scanning & quantitative data processing , operating prompt with menu .
6.Built-in RS-232C serial port interface & standard parallel print port

▲ Feature:

The Gold S53 UV-Visible spectrophotometer is a 2nm spectral slit width concise easy-operated general use spectrophotometric instrument with wide rang of wavelength. It can measure transmittance£¬absorbance and direct reading within the wavelengths of 200-1000 nm. This instrument is widely used in medical science and hygiene, clinical analysis, biochemistry, petroleum chemical industry, environmental monitoring and quality control department for qualitative and quantitative analyses.

Biocotek

▲ Specification:

Optical system	Diffraction grating C-T monochromator
Wavelength range	200~1000nm
Light source	Hamamatsu L2D2 long life high stable deuterium & tungsten lamp combination
Receiver:	Hamamatsu 1226 UV receiver
Wavelength accuracy:	2nm
Wavelength repeatability:	0.5 nm
Transmittance accuracy:	0.5%(t) (NBS SRM930D)
Transmittance repeatability:	0.3%(t)
Spectrum bandwidth:	4nm
Stray light:	<0.2%(t) (360nm, NaNO2) (220nm, NaI)
Display scales:	(T)0.0~199.9%
	(A)-0.3~2.999
	(F)1~9999
	(C)0~9999
Power source:	220V/110V
RS-232C serial port interface & standard parallel print port	

▲ Basic Kit:

Gold S53 Spectrophotometer	1 pc
1cm rectangular cell(quartz)	1 set(2 pcs)
1cm rectangular cell(glass)	1 set(4 pcs)
1cm 4 position cell holder	1 pc
Power cable	1 pc
Operating manual	1 pc
Certification of quality checking	1 pc
Packing list	1 pc
Fuse (2A)	2 pcs
Gold S53 qualitative & quantitative software package	1 set

▲ Optional Accessories & Spare Parts:

1.Fuse (2A/3A)
2.Source lamp assembly with pre-adjusted lamp holder(halogen lamp, deuterium lamp)
3.Rectangular cell 1, 2, 3, 5 cm (glass), 1 cm (quartz hermetical)
4.5 cm optical path cuvette rack
5.RS232C serial interface cable

Biocotek

Glod S54 UV-Visible Spectrophotometer

MODEL: Gold S54
ProductStandard: EnterpriseStandard Q/SEEK3
DISPLAY STYLE: 4 LED
DEMENSION: 450*435*305
WEIGHT Net 10kg Gross 12.5kg

▲ Description:

1.Japanese Hamamatsu L2D2 steady, high-luminosity, more than 3000hours lifetime Deuterium lamp; Japanese more than 10000hours lifetime Halogen-Tungsten Lamp; Hamamatsu 1226 UV-receiver; Patent compages technology of lamp parts.
2.Automatically wide range of wavelength scanning & dynamics scanning.
3.Non-spherical optical path of light source, CT grating monochromator.
4.Large sample compartment£¬4-positions sample cuvette rack£¬optional 5cm optical length rectangular cuvettes.
5.With a special software for spectrogram scanning & quantitative data processing , operating prompt with menu
6.built-in RS-232C serial port interface & standard parallel print port .

▲ Feature:

The Gold S54 UV-Visible spectrophotometer is a 2nm spectral slit width concise easy-operated general use spectrophotometric instrument with wide rang of wavelength. It can measure transmittance- absorbance and direct reading within the wavelengths of 200-1000 nm. This instrument is widely used in medical science and hygiene, clinical analysis, biochemistry, petroleum chemical industry, environmental monitoring and quality control department for qualitative and quantitative analyses.

Biocotek

▲ Specification:

Optical system£	Diffraction grating C-T monochromator
Wavelength range£	200~1000nm
Light source£	Hamamatsu L2D2 long life high stable deuterium & tungsten lamp combination
Receiver:	Hamamatsu 1226 UV receiver
Wavelength accuracy:	1nm
Wavelength repeatability:	0.5 nm
Transmittance accuracy:	0.5%(t) (NBS SRM930D)
Transmittance repeatability:	0.3%(t)
Spectrum bandwidth:	2nm
Stray light:	<0.2%(t) (360nm, NaNO2) (220nm, NaI)
Display scales:	(T)0.0~199.9%
	(A) -0.3~2.999
	(F)1~9999
	(C)0~ 9999
Power source:	110V or 220V
RS-232C serial port interface & standard parallel print port	

▲ Basic Kit:

1 Gold S54 Spectrophotometer	1 pc
2 1cm rectangular cell(quartz)	1 set(2 pcs)
3 1cm rectangular cell(glass)	1 set(4 pcs)
4 1cm 4 position cell holder	1 pc
5 Power cable	1 pc
6 Operating manual	1 pc
7 Certification of quality checking	1 pc
8 Packing list	1 pc
9 Fuse (2A)	2 pcs
10 Gold S54 qualitative & quantitative software package	1 set

▲ Optional Accessories & Spare Parts

1.Fuse (2A/3A)
2.Source lamp assembly with pre-adjusted lamp holder(halogen lamp, deuterium lamp)
3.Rectangular cell 1, 2, 3, 5 cm (glass), 1 cm (quartz hermetical)
4.5 cm optical path cuvette rack
5.RS232C serial interface cable

Biocotek

Gold S54T UV-VIS SPECTROPHOTOMETER

▲ Features:

* Display mode:4 LED
* HAMAMATZU L2D2 deuterium lamp and tungsten lamp Light source
* C-T configuration diffraction grating monochromator
* A spherical light source optical path whole aluminum alloy casting base

* HAMAMATZU long life (3000 hours) high stable deuterium lamp and tungsten lamp (10000 hours), patent Combination
* GOTO λ function
* RS232C serial & parallel interfaces, qualitative & quantitative software, with time and wavelength scanning, peak-valley detection, 2 wavelength quantification, 1st~3rd order curve fitting, linear regression, 1st~4th order differential spectrum operation, spectrogram access and comparison functions, etc
* 4 position cuvette rack, 1~5cm optical path rectangular glass and quartz cuvette

▲ Specifications:

Optical system	Diffraction grating C-T monochromator
Wavelength range:	190-1100 nm
Wavelength accuracy:	1nm
Wavelength repeatability:	0.5nm
Bandwidth:	2nm
Transmittance accuracy:	<0.3% (t)
Transmittance repeatability:	<0.3% (t)
Stray light:	<0.2% (t)
Scale Display	T 0-199.9%
	ABS -0.3-2.999
	FACT 1-9999
	CONC 0-9999
Interface:	RS232 serial & parallel
Print (option):	thermo sensitive plot printer /Jet printer or laser printer(for software)

Biocotek

▲ Standard Parts List:

1.Gold S54T Spectrophotometer 1 set
2.Power cable 1 pc
3.Instruction manual 1 pc
4.Quality certificate of product 1 pc
5.Fuses (2 A) 2 pcs
6.1cm rectangular cell (quartz) 1 set (2 pcs)
7.1cm rectangular cell (glass) 1 set (4 pcs)
8.1cm optical path cell holder 1 pc
9.Packing list 1 pc
10.Gold S54T qualitative & quantitative software package 1 set

▲ Optional Accessories and Spare Parts:

1.Fuse 2A/3A

2.Rectangular cell 1cm, 2cm, 3cm, 5cm (quartz)
3.Rectangular cell 1cm, 2cm, 3cm, 5cm (glass)
4.5cm optical path cell holder
5.RS-232C cable

SP-2100UV/UVPC Visible Spectrophotometer

SP-2100UV is an intelligent UV-Vis spectrophotometer, which has various functions as well as advanced instruments. The instrument contains features such as high automatization, various functions, strong plasticity, and so on. Connecting to PC, and various application functions that offered by Win-spec software, which enable the instrument to be a peripheral equipment of your computer. User can realize diversified functions by PC, such as instrument control, data sampling, data processing, and teletransmission. Moreover, special designed system of detecting light path that makes the sample testing with micro volume be possible, which takes an important part in biochemical analysis, life sciences research, especially in DNA quantitative analysis.

Biocotek

▲ SP-2100UV/SP-2100UVPC

Model	SP2100UV	SP-2100UVPC
Optical system(nm)	Littrow type optic system with 1200 grooves/mm diffraction grating monochromator.	
Measurement Path length	100mm	
Spectral slitwidth(nm)	4nm	
Wavelength range(nm)	190-1000	190-1100
Wavelength accuracy(nm)	±1nm (System Auto Calibration)	
Wavelength Repeatability	0.5nm	

Stray light	< 0.3%T (at 220nm and 340nm)	
Photometric mode	T, A, and C measurement	
Photometric Range	0-125.0%T, -0.097-3.000A	
Photometric accuracy	±0.5%T	
Photometric Repeatability	0.3%T	
Stability	<0.002A/hour after 1 Hour warm up	
Baseline flatness		±0.002A

▲ Main Specification

Display	2*20 characters LCD with blacklight function
Light Source	6V10W Halogen Lamp(2000 hours)
	Deuterium lamp(1000 hours)
Sample Compartment	100mm Optical Path
Standard Cell Holder	10mm
Standard Cell Configuration	10mm Glass cell(4pcs)
Power Requirement	110/220VACï¼Œ50/60Hz,±10%

▲ Basic testing mode

Biocotek

Basic measurement	Photometric measurement,(A/T)
	Concentration measurement (C)
Concentration measurement	Slope method (C=K*A)
	Standard curve method (C=K*A+b)
Software functions	Win-spec workstation, SP-2.33EN
Photometric analysis	T, A, and C measurement
Quantitative analysis	Standard curve measurement
Kinetic analysis	Measurement with time-scanning
Spectrum scan analysis	Spectrum scan function

▲ Basic instrument functions

100%T or 0%T setup	Automatic
System self-testing	Wavelength self-testing, light soures self-testing,filter switching,energy calibrating.
Light source switching	The switching point can be set at any position at the wavelength range of 325-355nm to improve testing accuracy
Light source management	Light source on/off status can be controlled to elongate its working life
Signal output	RS-232C, Analog
Communication function	Intercommunication can be realized after connecting to PC

Extended function (Accessories or workstation software should be chosen.)

Automatic multi-cells holder	Auto-sorting or manual-sorting test, 4 cells and 6 cells for choice.
Micro-volume testing	100μl, as the minimum volume. (Special cell holder and cuvette should be used.)
Constant temperature testing	Testing samples under the condition of constant temperature. This function is especially suit for kinetic analysis. Electronic constant temperature accessory or water cycling constant temperature accessory should be chosen.
USB communication	USB Port for choice, which fits the developmental tide of modern computer.

▲ Standard configuration:

10mm manual four-cell holder, 1pcs
10*10*45 mm standard glass cuvettes, 4pcs
10*10*45 mm standard quartz cuvettes, 2pcs
RS-232C connection cord, 1pcs
User manual, 1pcs
Operating protocol, 1pcs
Win-spec software 2.33EN, 1pcs

Biocotek

▲ Spectral scanning

In the instrument's wavelength range, run spectra scanning for sample according to the setting wavelength range, get the curve of Absorption/Transmittance vs. wavelength to analyze the spectrum character ist ic and ident i fy the maximum absorbance peak. User can do spectrum smoothing, peak or valley detecting, and overlap several spectrum curves to do four basic calculations, print and save the data.

Note: There may not be special notifications when the technical specification,profile and configuration changed. Please, the products will be in agreement with the real models.

SP-2102UV/UVPC Visible Spectrophotometer

SP-2102UVPC

SP-2102UV

Biocotek

Switchable spectral bandwidth especially suits for the analysis in drug control, pharmaceutics, and scientific research, and so on.
SP-2102UVPC spectrophotometer has been developed on the basis of SP-2102UV, which utilizes the abundant resources and functions of MS Windows platform.
SP-2102UVPC is a new generation of UV/Vis Spectrophotometer with spectrum scanning function.
This model not only reaches the instrument technical index prescribed in Drug Codex, but also has a good many quantification and qualification functions, such as wavelength scanning, single wavelength, double wavelength, triple wavelength, or multiple wavelength measurement, as well as derivative spectrum analysis, four basic calculations of spectra.
Excellent instrument stability and sensitivity render itself to be the top one among the same class instruments. The performance of SP-2102UVPC competes that of double beams spectrophotometers.

▲ Performance Specification:

MODEL	SP-2102UV	SP-2102UVPC
Optic system	Littrow type optic system with 1200 grooves/mm diffraction grating monochromator.	
Light path	100mm	
Spectrum band width	2nm	

Wavelength range	190-1100nm	
Wavelength accuracy	±1nm	±0.5nm
Wavelength repeatability	0.5nm	0.2nm
Stray light	≤0.1%T (at 220nm & 340nm)	
Photometric Mode	T, A, and C measurement	
Photometric Range	0-125.0%T, -0.097-3.000A	
Photometric accuracy	±0.3%T	
Photometric repeatability	0.15%T	
Stability	±0.001A/hr (at 500nm, after warming up for 1 hour)	
Baseline flatness		±0.002A

▲ Main Specification

Display	2*20 characters LCD with blacklight function(SP-2102UV)
	128*64 LCD Displayer (SP-2102UVPC)
Light Source	6V10W Halogen Lamp(2000 hours)
	Deuterium lamp(1000 hours)
Sample Compartment	100mm Optical Path
Standard Cell Holder	10mm
Standard Cell Configuration	10mm Glass cell(4pcs)
Power Requirement	110/220VACï¼Œ50/60Hz,±10%

Biocotek

▲ Basic testing mode

Basic measurement	Photometric measurement,(A/T)
	Concentration measurement (C)
Concentration measurement	Slope method (C=K*A)
	Standard curve method (C=K*A+b)
Software functions	Win-spec workstation, SP-2.33EN
Photometric analysis	T, A, and C measurement
Quantitative analysis	Standard curve measurement
Kinetic analysis	Measurement with time-scanning
Spectrum scan analysis	Spectrum scan function

▲ Basic instrument functions

Storage function	56 standard curves
100%T or 0%T setup	Automatic
System self-testing	Wavelength self-testing, light soures self-testing,filter switching, energy calibrating.

Light source switching	The switching point can be set at any position at the wavelength range of 325-355nm to improve testing accuracy.
Light source management	Light source on/off status can be controlled to elongate its working life.
Signal output	RS-232C, Analog
Communication function	Intercommunication can be realized after connecting to PC

Extended function (Accessories or workstation software should be chosen.)

Automatic multi-cells holder	Auto-sorting or manual-sorting test, 4 cells and 6 cells for choice.
Micro-volume testing	100μl, as the minimum volume. (Special cell holder and cuvette should be used.)
Constant temperature testing	Testing samples under the condition of constant temperature. This function is especially suit for kinetic analysis. Electronic constant temperature accessory or water cycling constant temperature accessory should be chosen.
USB communication	USB Port for choice, which fits the developmental tide of modern computer.

Biocotek

▲ Standard configuration:

10mm manual four-cell holder, 1pcs
10*10*45 mm standard glass cuvettes, 4pcs
10*10*45 mm standard quartz cuvettes, 2pcs
RS-232C connection cord, 1pcs
Power cable, 1pcs
User manual, 1pcs
Operating protocol, 1pcs
Win-spec software 2.33EN, 1pcs

Multiple wavelength analysis
Up to 20 wavelength points can be used for measuring sample's absorbance or transmittance. The background can be corrected by multiple wavelengths calculation to measure unknown samples, which great ly enhance test precision and speed. Besides, by inputting K factor, user can do multiple wavelengths programming to measure the concentration of unknowns.

Note: There may not be special notifications when the technical specification,profile and configuration changed. Please, the products will
be in agreement with the real models.

SP 2000UV/UVPC Visible Spectrophotometer

Can you believe? An UV-Vis spectrophotometer costs less than ten thousand, but with power on self-testing, automatic wavelength calibration, light source auto- switching, PC controlled, etc. In the past, it might cost several ten-thousand even decuple with these advanced functions.

SP-2000UV UV-Vis spectrophotometer takes use of high precision sine mechanism as a wavelength driver. Program control, wavelength accuracy, and the linearity over the full wavelength are obviously better than those of the congener instruments in which gear and rack is used as a wavelength driver, and a gauge dial is used for wavelength display.

▲ Specification:

Biocotek

MODEL	SP-2000UV	SP-2000UVPC
Optic system	Littrow type optic system with 1200 grooves/mm diffraction grating monochromator.	
Light path	100mm	
Spectrum band width	5nm	
Wavelength range	200-1000nm	190-1100nm
Wavelength accuracy	±2nm (automatic system calibration)	
Wavelength repeatability	1.0nm	
Stray light	≤0.5%T (at 220nm & 340nm)	
Photometric mode	T, A, and C measurement;	
Photometric range	0-125.0%T, -0.097-3.000A, 0-9999C, 0-9999F	
Photometric accuracy	±0.5%T	
Photometric repeatability	0.3%T	
Stability	±0.003A/hr (at 500nm, after warming up for 1 hour)	
Baseline flatness	±0.004A	

▲ Main Specification:

Display	2*20 characters LCD with blacklight function

Light Source	6V10W Halogen Lamp(2000 hours)
	Deuterium lamp(1000 hours)
Sample Compartment	100mm Optical Path
Standard Cell Holder	10mm
Standard Cell Configuration	10mm Glass cell(4pcs)
Power Requirement	110/220VAC

▲ Basic testing mode:

Basic measurement	Photometric measurement,(A/T)
	Concentration measurement(C)
Concentration measurement	Slope method (C=K*A)
	Standard curve method(C=K*A+b)
Software functions	Win-spec workstation, SP-2.33EN
Photometric analysis	T, A, and C measurement
Quantitative analysis	Standard curve measurement
Kinetic analysis:	measurement with time-scanning
Spectrum scan analysis	spectrum scan function

▲ Basic instrument functions:

Biocotek

100%T or 0%T setup	Automatic.
System self-testing	Wavelength self-testing, light soures self-testing,filter switching,energy calibrating
Light source switching	The switching point can be set at any position at the wavelength range of 325-355nm to improve testing accuracy
Light source management	Light source on/off status can be controlled to elongate its working life
Signal output	RS-232C, Analog
Communication function	Intercommunication can be realized after connecting to PC

Extended function (Accessories or workstation software should be chosen.)

Automatic multi-cells holder	Auto-sorting or manual-sorting test, 4 cells and 6 cells for choice.

Micro-volume testing	100μl, as the minimum volume. (Special option cell holder and cuvette should be used.)
Constant temperature testing	Testing samples under the condition of constant temperature. This function is especially suit for kinetic analysis. Electronic constant temperature accessory or water cycling constant temperature accessory should be chosen.
USB communication	USB Port for choice, which fits the developmental tide of modern computer.

▲ Spectral scanning:

In the instrument's wavelength range, run spectra scanning for sample according to the setting wavelength range, get the curve of Absorption/Transmittance vs. wavelength to analyze the spectrum characteristic and identify the maximum absorbance peak. User can do spectrum smoothing, peak or valley detecting, and overlap several spectrum curves to do four basic calculations, print and save the data. Note: There may not be special notifications when the technical specification,profile and configuration changed. Please, the products will be in agreement with the real models.

Applications and Features:

721S visible spectrophotometer, compact and easy-to- use spectrophotometric equipment, can be used to measure transmission, absorption and concentration direct-reading at wavelengths from 360nm to 1000nm. It can be widely applied to departments related to medical health, clinical examination, biochemistry,

petro-chemistry, environmental monitoring and quality control as qualitative and quantitative analyses. The main features are the following:

1. 4-digit LED display
2. Reasonable structure with advanced optical system, using precision machining high-quality CT monochromator and sealed grating, the optical properties of which are superior to the traditional LITTROW monochromator, with obvious advantages in the indicators such as resolution, photometric accuracy, stray light and stability. And its size is smaller.
3. Special precision pre-adjustment lamps and lamp holder fittings. Not necessary to re-adjust optical path for installation which is convenient for users without any professional maintenance skills.
4. Precision-linkage cutoff filter system automatically switching to appropriate wavelength filters, further reducing stray light
5. Sample cells made of special engineering plastics, resistant to solvent as well as strong acid/alkali, which enhances its anti-corrosion properties. Effusion dish and liquid storage container, which can be removed and cleaned, are mounted on the bottom to increase the service life.
6. 4-position colorimetric cell shelf, with optional rectangular optical path colorimetric dish with diameter from 1 cm to 5cm.
7. Automatic zero and 100%T adjustment Concentration factor setting and concentration direct-reading

▲ functions Specifications and Standard Accessories :

Biocotek

1. Optical system: diffraction grating C-T monochromator
2. Wavelength range:360nm～1000nm
3. Source lamp: halogen lamp 10W/8V
4. Wavelength accuracy: ±3.0nm
5. Wavelength repeatability: 1.5nm
6. Transmittance accuracy: ±0.8 %( ) (SRM930D)
7. Transmittance repeatability: 0.3 %( )
8. Spectrum bandwidth: 6nm
9. Stray light: 1.0 %( ) (360nm, NaNO2)
10. Display scale: (T):0.0～199.9%
    (A):-0.3～2.999
    (F):1～9999
    (C):0～9999
11. Power supply: 90～250V, 50/60Hz, 40W
12. Dimension: 350mm×300mm×220mm
13. Weight: net weight: 4kg; gross weight: 6kg
14. Basic set:
    1. Main device: 1pc
    2. Power cord: 1pc
    3. Operating manual: 1pc
    4. Product Quality Certificate: 1pc

5. Fuse (2A): 2pcs
6. 1cm rectangular colorimetric dish (glass): 4pcs
7. 1cm optical path colorimetric dish shelf: 1pc
8. Packing list: 1pc

15. Optional spare parts

1. Fuse (2A/3A)
2. Illuminant light components with pre-calibration lamp bracket
3. Rectangular colorimetric dish: 1cm, 2cm, 3cm, 5cm
4. 5cm optical path colorimetric dish shelf
5. Pr-Nd filters
6. Holmium trioxide filters

725S VISIBLE SPECTROPHOTOMETER

Features:

1. Curny-terner configuration diffraction grating monochromator, non-spherical light source optical path & Precise grid, whole aluminum metal alloy die-castings.
2. 128×64 dots LCD.
3. Simple & clear keyboard operation is convenient to realize auto 0% & 100% adjustment and error-free T/A transformation.
4. Factor setting & direct concentration readout functions.
5. As much as 24 items of working curve equations can be preserved for long time.
6. First order curve fitting can be performed.
7. With 2K E2PROM.

Spacious sample compartment, 4 position cuvette rack, suitable for 1-5 cm optical

path rectangular cells.

▲ Specifications:

Wavelength Range: 340-1000nm
Wavelength Accuracy: ±2nm
Wavelength Reproducibility: ≤0.5nm
Band width: 4nm
Photometric Accuracy: 0.5%(τ) (NBS SRM930D)
Photometric Reproducibility: 0.3%(τ)
Stray Light: ≤0.2%() (360nm, NaNO2)
Scale: TRANS: 0-199.9%
ABS: -0.3-2.999
FACT: 1-9999
CONC: 0-999

Standard Package:

1. 725S spectrophotometer 1 set
2. Power cable 1 pc
3. Operation Manual 1 pc
4. Certificate of quality checking 1 pc
5. Fuses（2A） 2 pcs
6. 1cm glass cuvettes 2 cases
7. 1cm 4 position cuvette rack 1 pc
8. Packing list 1 pc

Biocotek

Optional Accessories and Spare Parts:

1. Fuse（2A/3A）
2. Pre-aligned lamp
3. Glass cuvette 1cm、2cm、3cm、5cm
4. 5cm cuvette rack（suitable for 1-5cm cuvette）
5. RS-232C Serial cable
6. Optional serial printer
7. Praseodymium-Neodymium optical filter

F93/F93A Fluorescent Spectrophotometer

Biocotek

Features:

1. The emission monochromator adopts 1200 line diffraction grating. Its large aperture and non-spherical reflecting mirrors produces extra high sensitivity.
2. High stable and long life xenon lamp and power source ensure high stable testing and wide range of spectrum.
3. EX light use LED，match with the central wavelength of 365nm、420nm、475nm、525nm narrow banding-ultra low back grounding precision filters to consist 4 set of EX wavelength replacing system. The system can be replaced by customer，Carry on the maintenance expediently & can satisfy more choices and demand；
4. The central wavelength of 365nm、420nm、475nm、525nm narrow banding-ultra low back grounding precision filters with low fluorescence background，it's performance is better than glass filter；
5. LED is a cold-light source with longevity、lower background & reliability，prevent from thermo-pollution；
6. Automatic zero adjustment and automatic background subtraction； Eight stage sensitivity adjustment；Real time fluorescence reading display and concentration print out，Extra wide dynamic range of fluorescence reading，accurate measurement of minute changes in samples；
7. RS-232C serial port interface attached，after option Data Processing Software Package it is convenient to store record & transmit data & draw up a standard operating curve；
8. Quality fine，less weight & measure，test simply，particularly suitable for Edu. &

Lab.

Applications:

1. Fluorescence analysis is a high sensitive and high selective sophisticated analytical method. This method can provide information including excitation and emission spectrum, emission light intensity and measurement of life of emission light and polarization fluorescence etc. This method can provide a wide lineal range of working curve. It has becoming an important analytical method in the region of trace analysis. This method has been used in:
2. Medical science and clinical analysis：Clinical analysis of biological specimen.
3.Pharmaceutical science and pharmacology： Analysis of natural pharmaceutical products; Quality control of pharmaceuticals and research of pharmaceutical metabolites.
4. Biochemistry：Analysis of minute quantity of substances in biological body.
5. Food industry：Analysis of minute quantity of constituents in food.
6. Pollution analysis： Atmospheric pollution, environmental testing and food contamination analysis.
7. Organic and inorganic chemistry： Used in the trace analysis in case of those substances cannot be determined by absorption spectrophotometry.

▲Specifications:

Biocotek

Light source：LED
Exciting optical filters：Interference optical filter (10nm bandwidth)
central wavelength 365nm(F93)
optional central wavelength: 365nm、405nm、470nm、515nm (F93A)
The wavelength of Exciting optical filter can be selected within 360-600nm
Emission monochromator：360~650nm (C-T diffraction grating)
Wavelength accuracy：±2nm
Wavelength repeatability ：≤1nm
Sensitivity：1×10-9 g/ml
(Standard aqua of the sulfuric acid Quinine, 12nm bandwidth)
Linearity deviation： ≤±3.0%
Variation of power source： 220V±22V 50Hz±1Hz
Interface： RS232 serial port
printer：serial printer/Jet printer（for PC）
Selectable Data Processing Software Package

Standard parts：

Main instrument 1 set Power cord 1 pc
Instruction manual 1 copy
Product quality certificate 1 copy Fuse（1A）2 pcs

Fuse（5A）2 pcs　　Quartz fluorescence cuvette 10mm　1 pair
Packing list　1 copy

Optional accessories and spare parts:

Fuses（1A/5A）
Cuvette, special for high concentration samples
360~650nm interference optical filter(φ25mm)
　e.g.: F93A: 365nm、405nm、470nm、515nm
Quartz fluorescence cuvette10mm
Data processing software package (pack, for PC)
Printer cable
RS-232C serial port cable

Biocotek

F95 Fluorescent Spectrophotometer

▲ Application:

The measuring sensitivity of fluorescent spectrophotometry is 2-3 order higher than that of UV VIS spectrophotometry. It can offer the information of excitation & emission spectrum, light emitting intensity & life, quantum yield rate, fluorescence polarization etc. and a wide linear range of operating curve, so that it has become an important means involved in trace analysis.

It can be applied to the following fields:

◆ Medical & clinical tests.....Clinical analysis of biogenic testing material

◆ Pharmaceutics & pharmacology....Natural pharmacon analysis, pharmaceutical quality control and pharmacon metabolism research

◆ Biochemistry.....Minute quantity substance measurement in biological body

◆ Food industry.....Measurement of trace components in food

◆ Pollutant analysis.....Air pollution, environmental hygiene detection, food pollutants etc.

◆ Organic & inorganic chemistry.....Analysis of trace components which can not be measured with absorptive spectrophotometry

Features:

◆ Monochromator of 1200 line grating, large aperture aspherical reflector, extraordinarily high sensitivity

◆ High stable & durable xenon lamp and its power supply assure high stability of measurement, wide spectral range as well as the function of eliminating ozone.

◆ Photoelectric multiplier of high performance, optional S/N ratio

◆ Auto null adjustment & background subtraction

◆ 8 step sensitivity adjustment

◆ Real time fluorescent value, concentration printing

◆ Measurement function of single point sample calibration

◆ Auto negative high voltage decay protection for high lights

◆ Super-wide dynamic range of fluorescent light value, accurately measuring minute change of sample.

Biocotek

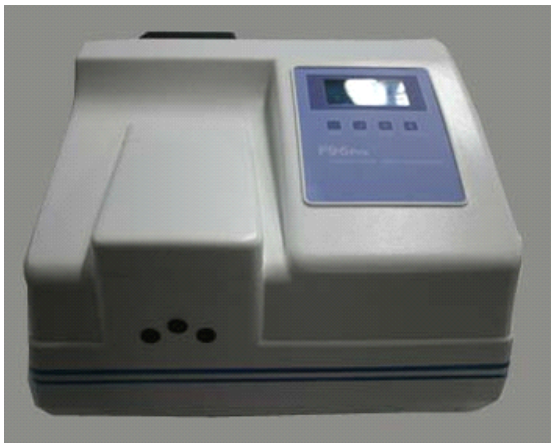
▲ Specifications:

Wavelength	Ex200~600nm (optional optical filter) * Em200~650nm (C-T monochromator)
Wavelength Accuracy	EM±2nm
Wavelength Repeatability	EM±1nm
Sensitivity	Water Raman's peak detection with 1cm crystal fluorescent cuvette S/N ≥50 (10nm narrow peak)
Expansion Function	The same with F96/F96 CRT of series 90

▲ Guide to Order:

Special Offer (suite)	Remark
F93	Digital display, manual wavelength, quinine sulfate 1X10-9
F95	Water Raman's peak S/N>50
F96 with PC software package	Auto wavelength, can scan after linking up with PC, Water Raman's peak S/N>50
F96 with PC, software package, printer and installation	Auto wavelength, can scan after linking up with PC, Water Raman's peak S/N>50

F96 Pro spectrophotometer



Light source	150W Xenon lamp (consumable part)
Excitation filter	Filter character: ±5nm labeled
	(An interference filter with center wavelength 365nm used as standard configuration. Users may separately purchase other dia.25mm interference filters with center wavelength within 200-850nm range.)
Emission monochromator	Emission monochromator wavelength range: (Em) 200â€•900nm
	Wavelength accuracy within ±1nm
	Wavelength repetition ≤0.5nm
	Emission spectrum bandwidth: 10nm
S/N ratio	S/N>150 (Using 1cm quartz sample cell, measure the signal noise ratio of Raman spectrum of water)
Check utmost	1x10-10 g/ml sulfuric acid quinine solution
Measure linearity	>0.995
Peak value	<1.5%
Zero line drift	<0.3% (Within 10 minutes)
Upper limit change of indicating value	±1.5% (Within 10 minutes)
Power requirement	220V±22V 110V/60HZ
Dimensions	442×392×250ï¼ˆmmï¼‰
Net weight	11kg
Gross weight	13kg

Biocotek

▲ F96 Pro Standard Package

Main instrument	1 set
365nm filter(Preassembled)	1 pc
F96PRO software package	1 set
Power cable	1 pc
USB wire	1 pc
Instruction manual	1 copy

Product quality certificate	1 copy
Fuse 2A	2 pcs
Fuse 5A	2 pcs
Quartz fluorescence sample cell10mm	1 pair
Packing list	1 copy

▲ Optional Spare Parts and Accessories:

1.Fuses 2A 5A
2.200~850nm interference optical filter(φ25mm)
3.Quartz fluorescence sample cell10mm
4.Personal computer
5.Printer cable
6.Dedicated serial interface printer

F96/F96 Pro Fluorescent Spectrophotometer

The measuring sensitivity of fluorescent spectrophotometry is 2-3 order higher than that of UV VIS spectrophotometry. It can offer the information of excitation & emission spectrum, light emitting intensity & life, quantum yield rate, fluorescence polarization etc. and a wide linear range of operating curve, so that it has become an important means involved in trace analysis.

▲ Feature:

* Whole aluminum metal alloy die-castings.
* The emission monochromator adopts 1200 line diffraction grating, its large aperture and non-spherical reflecting mirrors produces extra high sensitivity.
* High stable and long life Xenon lamp and it's power ensure high stable testing and wide range of spectrum.
* High performance photomultiplier to gain best signal-noise ratio.
* Built in SCM technology,auto 0% and auto background subtraction.

* 0-7 stage gain adjustment.
* Real time fluorescence reading and concentration printout.
* Sigle-point sample concentration direct reading ability.
* Provide 2 working modes: main unit test mode and software test mode.
* Quantitative and qulitative software with PC, full automation, three regular fuction, kinetics measurement, quantitative measurement and spectrum scan.

▲ F96 Specifications:

Exciting Filter Wavelength Range	Ex200~750nm (optional,expand to 750nm) *
Emission Wavelength Range	(200-650) nm (Expand to 800nm)
Emission Wavelength Accuracy	±2nm
Emission Wavelength Reproducibility	<1nm
Sensitivity	S/N ≥50 (Raman peak of water in 1cm quartz fluorescence cuvette)
Linearity Deviation	± 3.0%
Display Mode	4digit(LED)
Lamp	Hamamatsu 150W Xenon Lamp
Optical System	C-T configuration diffraction grating monochromator (EM 200-750nm, Spectral bandwidth 12nm)
Interface	RS232 Serial Port
Dimension	380*430*240
Weight	12KG
* Standard configuration: Central wavelength at 365nm optical filter, 10nm banwidth, dia 25mm)	

Biocotek

▲ F96 Standard Configuration:

F96 Spectrophotometer 1 PC
Power cable 1 PC
Operation Manual 1 pc
Fuses (5 A) 2 pcs
1 cm quartz fluorescence cuvettesã€€1 Pairs
Quantitative and qulitative software package 1 set
Packing list 1 PC

▲ Optional Accessories and Spare Parts:

1. Fuseï¼ˆ5Aï¼‰
2. Xenon lamp
3. Xenon lamp power
4. Xenon lamp trigger

5. 200-750nm interference optical exciting filter(10 nm bandwidth, dia 25mm)
I.254nm, 287nm, 313nm, 4058nm, 420nm, 436nm, 480nm, 492bm, 525nm
6. Quartz fluorescence cuvette 0.5cm, 1cm
7. Glass fluorescence cuvette 0.5cm, 1cm
8. 1cm cuvette rack
9. mini printer
10. Mini printer cable

SP-1920 Double Beam UV-visible Spectrophotometer

The SP-1900 is a double beam spectrophotometer. The SP-1900, which inherits strongpoint of all mature productions, and also uses the classic double-beam theory, makes the test result more precise, stable and reliable.

The SP-1900 is ideal to widely use most of test filed such as clinical laboratory, biochemical laboratory, pharmacy, petrol chemical laboratory, environmental protection and various fields of quality control.

This user's manual provides the description of the SP-1900, a list of main specifications, functions introduction and usual operations. Available accessories. This instrument is compact, easy-to-use, and ruggedness. The large sample compartment accepts various accessories and cell from 10mm to 100mm path length. The built-in RS-232 serial interface enables the instrument to be connected to a computer.

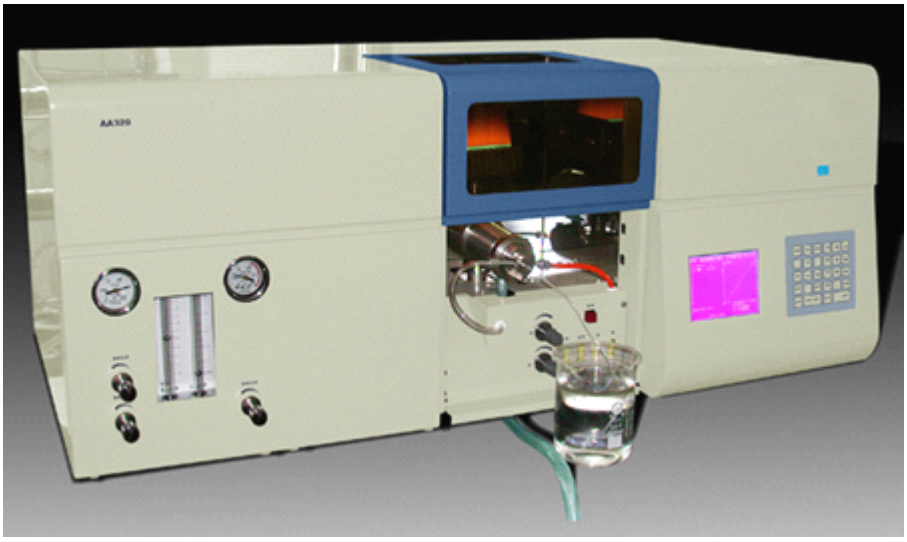
Now we mainly export SP-1920 Spectrophotometer, which has 6.4inch touch screen for operation.

MODEL	SP-1920
Type	Double Beam Asymmetrical Vertical Test Optical Path Technology（patent） grating system 1200line/mm
Monochromator	Czerny-Turner， Focus300
Grating	45*45mm, 1800 lines/mm
dectector	High performance digital dual-detector photoelectric cell
bandwidth(nm)	0.5, 1, 2, 4
wavelength range(nm)	190-1100
wavelength display(nm)	0.1
wavelength set(nm)	0.1
wavelength accuracy(nm)	±0.3
wavelength repeatability(nm)	≤0.1
Scan speed(nm)	wavelength movespeed 6000nm/min,wavelength scan speed 10-3000nm/min
light source switch(nm)	300-360
stray light（220 & 340nm）	≤0.01%T
optical structure	double beam
Photometric mode	A（Abs）, T（%T）, Energy（E）
Photometric range	0-125%T(T)， -0.097A to 3A, 0C to 9999C(0-9999F)
Photometric accuracy	±0.3%T NIST930e standard filter
Photometric repeatability	0.1%T 0.001Abs(0-0.5Abs) 0.002Abs(0.5-1Abs)
Steability	±0.0004A/Hour（at 500nm one hour preheat）
Base line	±0.002A
Drift	0.001A/H
Display	6.4inch big touch operation screen
Operation	Touch screen
	spectrum scan
	time scan
	standard curve
	photometric analysis
Application software	win-sp5.2 for 1900 (Optional)
Signal output	USB, RS-232C
Sample compartment（mm）	225*114 (length×width)
Standard cell holder（mm）	2*10 (1 position）
Standard glass cell（mm）	10（4pcs）
Standard quartz cell（mm）	10（2pcs）
Power requirement	110/220VAC，50/60Hz

Biocotek

●Note: There may not be special notifications when the technical specification,profile and configuration changed. Please, the products will be in agreement with the real models.

Atomic Absorption Spectrophotometer



▲ Characteristics A

1. Build-in computer data processing and LCD: adopting highly integrated micro digital circuit, which is stable and reliable with the functions of integral holding, peak height and area, auto zero adjusting, deuterium lamp and background, multi-linear and nonlinear curves fitting, various parameters and working curves displayed in screen and report printing, etc. It is equipped with interface for externally linking PC.
2. Good basic line stability: Double-beam system of optimized design can automatically compensate the light source drift and wavelength drift caused by the variation of temperature (with the function of the eliminating the affection of wavelength drift on the base line stability) and electronic circuit drift so as to reach a good basic line stability. The cathode lamp needs not be pre-heated for long time and sample can be analyzed immediately. It is the preferable instrument chosen by users to conduct analysis of multiple kinds of elements and fast analysis of samples.
3. High precision of measurement: Gas path system is equipped with precision pressure stabilizing and current stabilizing devices to reach stable flame and low noise. Specially designed fine light beam passes through the flame to ensure a high precision analytical test and low characteristic concentration
4. Optical path of high energy: A total reflection system is adopted to eliminate color difference in full range. By means of chemical conversion, a round light spot of the light source becomes a long light spot, which enters into the slit. Therefore the light flux of double beam is enhanced.
5. Long-life and anti-corrosive atomization system: The burner is made of new type titanium alloys, anti-corrosive and fast thermal equilibrium. It meets the requirement of measurement sensitivity without water-cooling.
6. Multi-functional analysis mode: for methods of flame absorption, flame emission, graphite furnace atomic absorption and hydride generation.
7. Safe and reliable gas path system: Special devices of quick gas conversion and

safety protection can be used to analyze air-acetylene flame and extend the analytic elements to reach more than 60.
8. Complete set of accessories: to be supplied with the instrument and ready for use after they are purchased.

▲ Characteristics B

1. Light-source system: Hollow cathode lamp power supply: with adjustable current Deuterium Lamp power supply: with fixed current
2. Optical system: Double beam total refection system, C-T type monochromator Flashing wavelength: 250nm
3. Flame atomization system: Inter-changeable titanium alloy burner of 10cm and 5cm slits. Gas path is equipped with pressure indication, high precision voltage stabilizing flow adjustment, fast conversion of air and nitrous oxide, gas supply cut off, power cut off, prevention of flashback and logic interlock protection devices.
4. Signal processing: absorptance, concentration, emission and emission concentration; Standard curves: linear regression, curve fitting and multi-point standard calibration. Average value, standard deviation, relative standard deviation and correlation coefficient can be worked out. Standard curves, atomic absorption peak diagram, spectrum outline sketch, data as well as instrument parameters list and analytical reports can be displayed and printed out.

Biocotek

▲ Technical Specifications

1. Working spectral range: 190~900nm
2. Wavelength accuracy: ≤±0.5nm
3. Wavelength repeatability: ≤0.3nm (single direction)
4. Spectrum bandwidth: 0.2nm, 0.4nm, 0.7nm, 1.4nm, 2.4nm, 5.0nm
5. Resolution: <40%
6. Base line stability: ±0.004Abs/30min
7. Characteristic concentration of copper: ≤0.04μg/ml/1%
8. Detection limit of copper: ≤0.008μg/ml
9. Background calibration ability: Greater than 30 times.
10. Standby Interface: RS 232
11. Instrument power supply: 220V, 3A, 50Hz

▲ Accessory

Main accessories supplied with the instrument: Several decades of accessories including air compressor, one piece of (Zn or Cu or K). Gas external pipe, acetylene cylinder pressure-reducing valve and water knockout gas filter.

▲ Optional accessories:

GA3202 HGA graphite furnace system: Used to conduct trace and ultra-trace analysis with an absolute sensitivity of 10-10-10-12 gram.
5cm long-life titanium burner: The necessary accessory for nitrous oxide-acetylene flame analysis.
Hydride generator (Totally automatic): Making the characteristic concentration of As, Se, Sb, Bi, Pb, Sn, Te, Ge, In, Tl, Cd and Zn lower than ppb level with cold atomic mercury measurement method.
Nitrous oxide reductor: The necessary accessory for nitrous oxide-acetylene flame analysis.
Hollow cathode lamp: All specifications are available.
Graphite tube: All specifications are available.
Software with I/O port

Biocotek